

INTERNATIONAL SEARCH REPORT

International Application No.
T/EP 03/11027

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/09 C12N15/11 C12N15/85 C12N15/90 C12N5/10
C12P21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A01K C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ESPERET CORINNE ET AL: "Non-erythroid genes inserted on either side of human HS-40 impair the activation of its natural alpha-globin gene targets without being themselves preferentially activated." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 33, 18 August 2000 (2000-08-18), pages 25831-25839, XP002225659 ISSN: 0021-9258 page 25835, column 1, last paragraph -page 25836, column 2, paragraph 1</p> <p style="text-align: center;">--- -/--</p>	1-3, 5-12,16, 17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

5 March 2004

Date of mailing of the international search report

15/03/2004

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PCT/EP 03/11027

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>TRINH K R ET AL: "Site-specific and directional gene replacement mediated by Cre recombinase"</p> <p>JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 244, no. 1-2, 20 October 2000 (2000-10-20), pages 185-193, XP004218458</p> <p>ISSN: 0022-1759</p> <p>cited in the application</p> <p>page 193</p>	11, 12, 17
X	<p>KARREMAN S ET AL: "ON THE USE OF DOUBLE FLP RECOGNITION TARGETS (FRTS) IN THE LTR OF RETROVIRUSES FOR THE CONSTRUCTION OF HIGH PRODUCER CELL LINES"</p> <p>NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 24, no. 9, 1 May 1996 (1996-05-01), pages 1616-1624, XP000616161</p> <p>ISSN: 0305-1048</p> <p>cited in the application</p> <p>the whole document</p>	12, 17
X	<p>WO 00 63410 A (EINSTEIN COLL MED ;LEBOULCH PHILIPPE (US); MASSACHUSETTS INST TECH)</p> <p>26 October 2000 (2000-10-26)</p> <p>the whole document</p>	11
A	<p>WO 02 08409 A (OW DAVID W ;US OF AMERICA AS REPRESENTED B (US))</p> <p>31 January 2002 (2002-01-31)</p> <p>figure 1; examples 1,2</p>	1-17
A	<p>FENG Y-Q ET AL: "SITE-SPECIFIC CHROMOSOMAL INTEGRATION IN MAMMALIAN CELLS: HIGHLY EFFICIENT CRE RECOMBINASE-MEDIATED CASSETTE EXCHANGE"</p> <p>JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 292, no. 4, 1999, pages 779-785, XP000929622</p> <p>ISSN: 0022-2836</p> <p>cited in the application</p> <p>page 784; figure 1A</p> <p>-& WO 00 63410 A (EINSTEIN COLL MED ;LEBOULCH PHILIPPE (US); MASSACHUSETTS INST TECH) 26 October 2000 (2000-10-26)</p> <p>figure 4C</p>	1-17

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FUSSENEGGER M ET AL: "Genetic optimization of recombinant glycoprotein production by mammalian cells" TRENDS IN BIOTECHNOLOGY, ELSEVIER, AMSTERDAM, NL, vol. 17, no. 1, January 1999 (1999-01), pages 35-42, XP004155532 ISSN: 0167-7799 cited in the application page 36, column 2</p>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0063410	A	26-10-2000	US 6534314 B1	18-03-2003
			AU 4343300 A	02-11-2000
			WO 0063410 A1	26-10-2000
WO 0208409	A	31-01-2002	AU 7707601 A	05-02-2002
			BR 0112633 A	16-09-2003
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			CN 1455817 T	12-11-2003
			EP 1309709 A2	14-05-2003
			JP 2004504055 T	12-02-2004
			WO 0208409 A2	31-01-2002
			US 2002123145 A1	05-09-2002